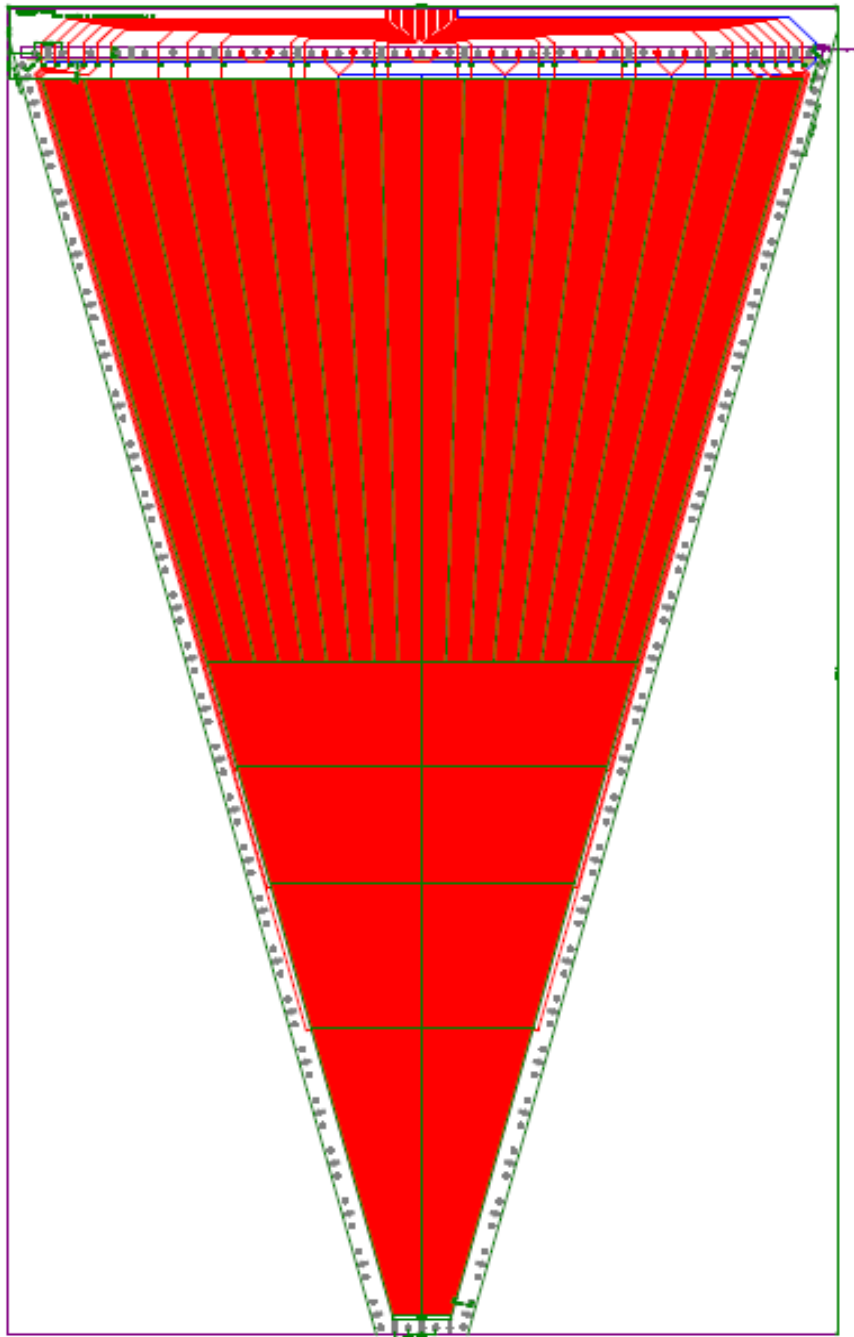


Common GEM foil prototype design for EIC Forward Tracking

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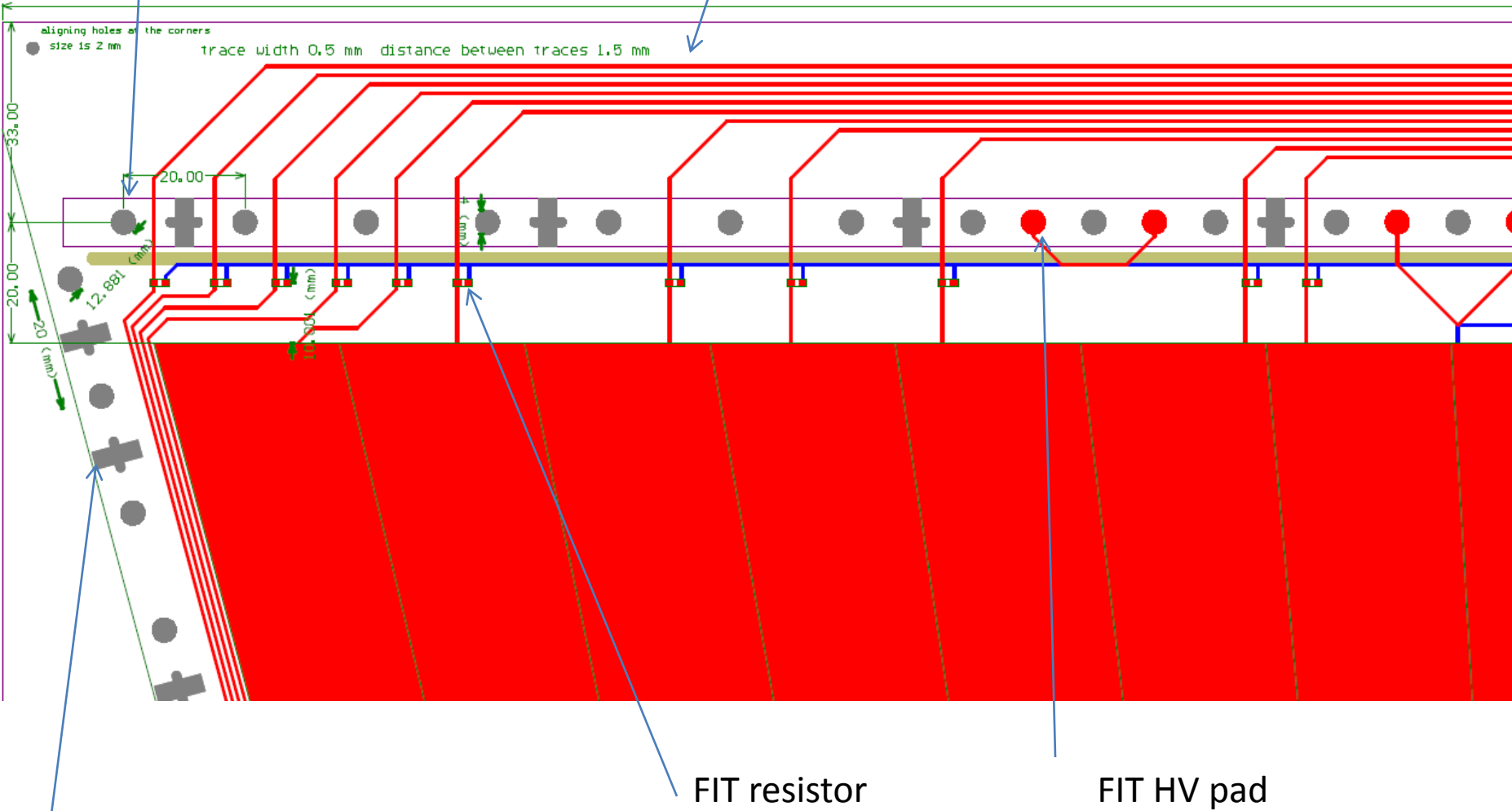


GEM foils should come with a rectangular shape, the current designed size is:
600mm by 1031.314 mm

Each group has the feasibility to design the frames.

Assembling hole

HV traces for sectors

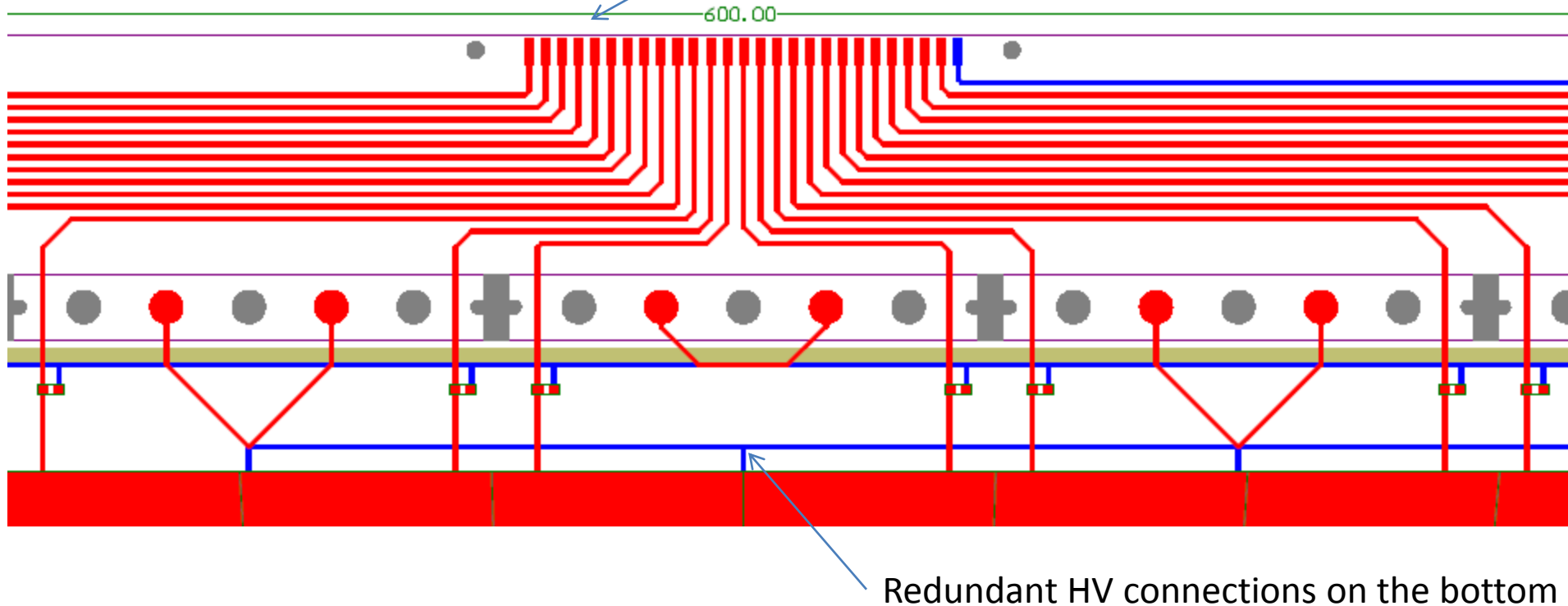


Cross hole for FIT stretching

FIT resistor

FIT HV pad

HV pads (for UVa & Temple Groups)
Note blue pad on the bottom surface.



Redundant HV connections on the bottom

Quick summary:

Close to a final design, we need to:

- 1) Decide size of HV pads for UVa & Temple Groups (currently with a 2 mm pitch, too small?);
- 2) Put some holes for aligning triple-GEM;
- 3) Discuss with Tech-Etch about the possibility, that in a common design, of drilling / not drilling the FIT cross holes for the three groups
- 4) GEM holes not in yet, would be easier to have Tech-Etch doing that.